

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification ⁶ : B65D 17/34, 51/18</p>	<p>A1</p>	<p>(11) International Publication Number: WO 97/00207 (43) International Publication Date: 3 January 1997 (03.01.97)</p>
<p>(21) International Application Number: PCT/BR96/00028 (22) International Filing Date: 14 June 1996 (14.06.96) (30) Priority Data: MU 7501119-0 U 14 June 1995 (14.06.95) BR (71)(72) Applicants and Inventors: WOLF, Waldir [BR/BR]; Av. da Saudade, 266, Ponte Preta, 13041-670-Campinas, SP (BR). LÍMOLI, David, Carlos [BR/BR]; Rua Mário Reis, 65, Mansões Sto. Antonio, 13087-460-Campinas, SP (BR). (74) Agent: TOLEDO CORRÊA MARCAS E PATENTES S/C LTDA.; Rua Ferreira Penteado, 709 - 3º andar, 13010-041-Campinas, SP (BR).</p>		<p>(81) Designated States: CN, JP, MX, US, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i></p>
<p>(54) Title: INVOLATE, HYGIENIC AND DISCARDABLE SEAL TO PROTECT THE SUPERIOR PART OF CAN BEVERAGES IN GENERAL</p> <p>(57) Abstract</p> <p>Tamper-evident, hygienic and discardable seal (1) for protecting and maintaining the lid (3) on the superior part of beverage cans (2), always clean and hygienic from the point of the manufacture to the final consumer, avoiding the accumulation of dirt and illness to consumers.</p> <div data-bbox="779 1155 1380 1512"></div> <div data-bbox="925 1617 1266 1890"></div>		

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AM	Armenia	GB	United Kingdom	MW	Malawi
AT	Austria	GE	Georgia	MX	Mexico
AU	Australia	GN	Guinea	NE	Niger
BB	Barbados	GR	Greece	NL	Netherlands
BE	Belgium	HU	Hungary	NO	Norway
BF	Burkina Faso	IE	Ireland	NZ	New Zealand
BG	Bulgaria	IT	Italy	PL	Poland
BJ	Benin	JP	Japan	PT	Portugal
BR	Brazil	KE	Kenya	RO	Romania
BY	Belarus	KG	Kyrgyzstan	RU	Russian Federation
CA	Canada	KP	Democratic People's Republic of Korea	SD	Sudan
CF	Central African Republic	KR	Republic of Korea	SE	Sweden
CG	Congo	KZ	Kazakhstan	SG	Singapore
CH	Switzerland	LJ	Liechtenstein	SI	Slovenia
CI	Côte d'Ivoire	LK	Sri Lanka	SK	Slovakia
CM	Cameroon	LR	Liberia	SN	Senegal
CN	China	LT	Lithuania	SZ	Swaziland
CS	Czechoslovakia	LU	Luxembourg	TD	Chad
CZ	Czech Republic	LV	Latvia	TG	Togo
DE	Germany	MC	Monaco	TJ	Tajikistan
DK	Denmark	MD	Republic of Moldova	TT	Trinidad and Tobago
EE	Estonia	MG	Madagascar	UA	Ukraine
ES	Spain	ML	Mali	UG	Uganda
FI	Finland	MN	Mongolia	US	United States of America
FR	France	MR	Mauritania	UZ	Uzbekistan
GA	Gabon			VN	Viet Nam

INVIOLE, HYGIENIC AND DISCARDABLE SEAL TO PROTECT THE
SUPERIOR PART OF CAN BEVERAGES IN GENERAL".

Description

5 The present report deals with a detailed description
accompanied of elucidative drawings of a new gadget or seal like an inviolate,
hygienic and discardable or seal to protect the superior part of can beverages in
general, to be adapt by the industry immediately after the filling up and cleaning of
the cans, making this before the distribution to the consumers. It will protect the
10 surface of the superior part of the cans where the mouth will come in contact for
drinking, offering total hygiene to the usurious.

 Until the present moment no other gadget or seal like
this, is known in the market with the same function and characteristics of this
inviolate, hygienic and discardable seal to protect the superior part of can beverages
15 in general, proposed in this descriptive report.

 This inviolate, hygienic and discardable seal to
protect the superior part of can beverages in general, object of this present report,
serves as a protection for the surface of the superior part of the can beverage for the
side where the mouth will have contact in order for drinking to be possible. This
20 way it offers total hygiene for those who use the cans, as well as it avoids the
accumulation of dirt and/or other pollutants which may be deposited in the cans
during the transportation and storage that can cause or provoke illness to people.

 Next, we refer to the figures enclosed, which
accompany this descriptive report, for better understanding and illustrating the seal,
25 as well:

FIGURE 1. Shows a side-view with all configuration details of the gadget or seal in its superior part.

FIGURE 2. Shows a superior view of the seal in its superior part.

5 The inviolate, hygienic and discardable seal to protect the superior part of can beverages in general, object of this present report, has the principal objective of maintaining the lid on the superior part of can beverages always clean and hygienic since the manufacture to the final consumer, avoiding the accumulation of dirt and illness to consumers, being manufactured in
10 discardable material suitable to the can itself, like plastic, malleable metal, acrylic and others convenient materials, which its form accompanied the design of the superior part of the can (2), like showing on FIGURE 2, protecting the surface (3) and the side (4) in sufficient length to cover the contact of the mouth with the can (5) conformed, shaped, putted, fixed, thermo-fixed, etc. in the superior part of the
15 can, and also being able to be made of only one part or more parts, having a mechanism or fast hand opening system (6) which can be of any convenient and adaptable design.

As we can clearly see in the above description, the
"INVIOLE, HYGIENIC AND DISCARDABLE SEAL TO PROTECT THE
20 SUPERIOR PART OF CAN BEVERAGES IN GENERAL" is an extremely practical healthy serviceable gadget or seal which offers innumerable advantages, of easy use and manufacture being, this way, filled of characteristics which makes it deserve the Patent Privilege of the Utility Model.

CLAIM

1 - "INVIOLEATE, HYGIENIC AND
DISCARDABLE SEAL TO PROTECT THE SUPERIOR PART OF CAN
BEVERAGES IN GENERAL" chararterized by to protect and maintain the lid on
5 the superior part of can beverages always clean and hygienic since the manufacture
to the final consumer, avoiding the accumulation of dirt and illness to consumers,
being manufactured in discardable material suitable to the can itself (like plastic,
malleable metal, acrylic and others convenient materials), which its form
accompanied the design of the superior part of the can (2), as showed on FIGURE
10 2, protecting the surface (3) and the lateral part of the can (4) in sufficient length to
cover the contact of the mouth with the can (5), said seal conformed, shaped,
putted, fixed, thermo-fixed, etc. in the superior part of the can, and also being able
to be made of only one part or more parts, having a mechanism or fast hand
opening system (6) which can be of any convenient and adaptable design.

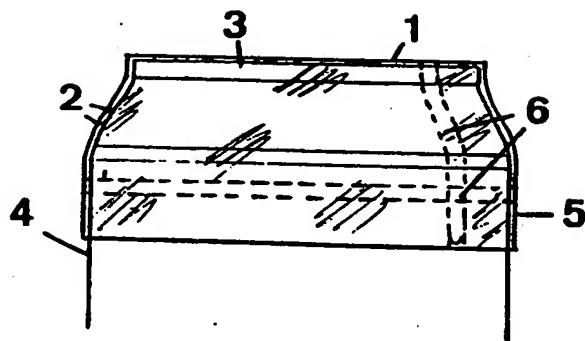


FIG. 1

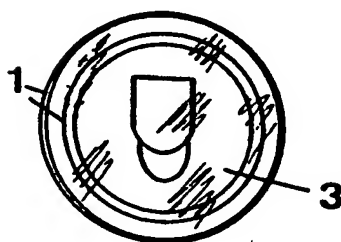


FIG. 2

INTERNATIONAL SEARCH REPORT

International Application No

PCT/BR 96/00028

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 B65D17/34 B65D51/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 6 B65D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US,A,4 927 048 (HOWARD) 22 May 1990 see column 2, line 39 - column 3, line 22; figures 1-5	1
X	WO,A,88 10215 (MUELLER) 29 December 1988 see page 12, line 5 - page 13, line 5 see page 14, line 9 - line 19; figures 7,19,20	1
X	US,A,5 139 163 (DIAZ) 18 August 1992 see figures 1-8	1
X	US,A,5 108 003 (GRANOFISKY) 28 April 1992 see figures 1-5	1
X,P	WO,A,95 28328 (JUNG) 26 October 1995 see page 3, line 19 - page 5, line 4; figures 1,2	1
	--- -/--	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

30 September 1996

Date of mailing of the international search report

09.10.96

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo.nl,
Fax (+31-70) 340-3016

Authorized officer

Berrington, N

INTERNATIONAL SEARCH REPORT

L. ational Application No

PCT/BR 96/00028

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US,A,4 538 740 (PETERSEN JR.) 3 September 1985 see figures 2,6 -----</p>	1

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/BR 96/00028

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US-A-4927048	22-05-90	NONE	
-----	-----	-----	-----
WO-A-8810215	29-12-88	AU-A- 1941488	19-01-89
		AU-A- 2910789	12-12-89
		WO-A- 8911421	30-11-89
-----	-----	-----	-----
US-A-5139163	18-08-92	NONE	
-----	-----	-----	-----
US-A-5108003	28-04-92	NONE	
-----	-----	-----	-----
WO-A-9528328	26-10-95	AU-A- 6513594	10-11-95
-----	-----	-----	-----
US-A-4538740	03-09-85	NONE	
-----	-----	-----	-----